Quality Control Reports

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QC ABSTRACT

NAME OF WORK: Package No.03 (Package Consists of 21 Works)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	PCC(M15)	Compressive Strength(7days and 28days)	2 set /6-15 cum	11.12	4	4
7	RCC(M20)	Compressive Strength(7days and 28days)	1 set /1-5 cum	4.27	2	2
8	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	7 set /150-200 cum	154.66	14	14
9	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1

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10	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
11	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
12	TACK COAT	Rate of spread	One Test		1	1
13	Chain Link Fencing	Average Thickness	One Test		1	1
		Dia of line wire	One Test		1	1
		Mesh size	One Test		1	1
		Nominal dia of mesh wire	One Test		1	1
		Bend Test	One Test		1	1
14	M.S Block Pipe	Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
15	M.S. Rectangular pole	Weight/Meter	One Test		1	1
		Yeild stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1

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Sl.No.	Physical properties	Results	Requirement as per IS 1500: 2019
1	Fineness by dry sieving (%)	2.13	
2	Fines by Air permeability method (m^2/kg, Min)	287.3	225m^2/kg, Min
3	Density (gm/cc)	3.12	
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-08-12-41** **Date: 30-01-20**
Project Name	:	Package No.03 (Package Consists of 21 Works)
Agency	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
Customer's Reference	:	BBMP/EE/BTP/WO/148/2018-19
Date of Receipt	:	01-01-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	02-01-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-08-12-41**	**Date: 04-01-20**
Project Name	:	Package No.03 (Package Consists of 21 Works)	
Agency	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.	
Customer's Reference	:	BBMP/EE/BTP/WO/148/2018-19	
Date of Receipt	:	01-01-20	
Sample Type	:	40mm down size coarse aggregate	
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties	
Date of test	:	01-01-20	

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	423	423	2.8	97.2	90-100
3	20 mm	5852	6275	41.8	58.2	30-70
4	10 mm	4232	10507	70.0	30.0	10-35
5	4.75 mm	4225	14732	98.2	1.8	0-5
6	Pan	268	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-08-12-41** **Date: 04-01-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.56	_
5	Bulk Density(Compacted) (Kg/l)	1.59	_
6	Water Absorption(%)	0.21	_

Assistant Executive Engineer,
Kodigehalli Sub Division,
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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-08-12-41** **Date: 03-01-20**
Project Name	:	Package No.03 (Package Consists of 21 Works)
Agency	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
Customer Reference	:	BBMP/EE/BTP/WO/148/2018-19
Date of Receipt	:	01-01-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-01-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	–

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BBMP, Bangalore

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-08-12-41** **Date: 03-01-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.53	_
5	Bulk Density(Compacted) (Kg/l)	1.55	_
6	Water Absorption(%)	0.22	_
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-08-12-41** **Date: 03-01-20**

Project Name : Package No.03 (Package Consists of 21 Works)

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 01-01-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 01-01-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-08-12-41** **Date: 03-01-20**

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P..
Bangalore.

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TEST RESULTS OF STEEL

Lab ID	:	CP-2019-08-12-41	Date: 07-01-20
Project Name	:	Package No.03 (Package Consists of 21 Works)	
Agency	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.	
Customer's Reference	:	BBMP/EE/BTP/WO/148/2018-19	
Date of Receipt	:	06-01-20	
Sample Type	:	Sunvik	
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.	
Date of test:	:	06-01-20	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-12-41** **Date: 18/01/2020**

Project Name : Package No.03 (Package Consists of 21 Works)

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 13-01-20

Customer ID : PCC , 8 Tata Nagar 8th main Road Park

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	11/01/2020	18/01/2020	151.63 X 150.09 X 150.34	22759	8.425	292.0	12.8	12.4
2	PCC	M15	11/01/2020	18/01/2020	151.25 X 151.71 X 151.56	22947	8.525	276.4	12.0	
3	PCC	M15	11/01/2020	18/01/2020	151.70 X 149.00 X 150.10	22603	8.584	281.2	12.4	

Assistant Executive Engineer,
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Yelahanka Zone, B.B.M.P.,
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-12-41** **Date: 08/02/2020**

Project Name : Package No.03 (Package Consists of 21 Works)

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 13-01-20

Customer ID : PCC , Tata Nagar , 8th main Road Park

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	11/01/2020	08/02/2020	149.98 X 151.26 X 151.19	22685	8.056	395.9	17.5	17.6
2	PCC	M15	11/01/2020	08/02/2020	149.49 X 149.88 X 151.90	22406	8.654	399.9	17.8	
3	PCC	M15	11/01/2020	08/02/2020	149.88 X 151.44 X 151.90	22697	8.116	400.3	17.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-12-41 **Date: 18/01/2020**

Project Name : Package No.03 (Package Consists of 21 Works)

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 13-01-20

Customer ID : PCC , Tata Nagar Near Indira canteen. 9th cross Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	11/01/2020	18/01/2020	149.88 X 151.25 X 151.58	22669	8.425	272.2	12.0	12.3
2	PCC	M15	11/01/2020	18/01/2020	149.77 X 149.13 X 151.02	22334	8.525	271.8	12.2	
3	PCC	M15	11/01/2020	18/01/2020	149.28 X 151.86 X 151.57	22670	8.584	286.8	12.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-12-41

Date: 08/02/2020

Project Name : Package No.03 (Package Consists of 21 Works)

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 13-01-20

Customer ID : PCC, Tata Nagar Near Indira canteen 9th cross Park

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	11/01/2020	08/02/2020	149.67 X 150.69 X 150.74	22553	8.056	394.8	17.5	17.5
2	PCC	M15	11/01/2020	08/02/2020	150.34 X 150.85 X 149.16	22679	8.654	399.9	17.6	
3	PCC	M15	11/01/2020	08/02/2020	149.25 X 151.77 X 149.58	22652	8.116	394.9	17.4	

Assistant Executive Engineer,
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/01/2020

ID	:	CP-2019-08-12-41
ject Name	:	Package No.03 (Package Consists of 21 Works)
ncy	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
tomer's Reference	:	BBMP/EE/BTP/WO/148/2018-19
e of Receipt	:	18-01-20
tomer ID	:	Drain Bottom Slab Concrete , Maruthi Nagar 10th C cross Road.
ıple Type /Size	:	150X150X150 mm
ıple grade/Age	:	M20 / 7 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	23/01/2020

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Drain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	149.42 X 151.27 X 151.66	22603	8.814	411.5	18.2	18.5
	Drain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	150.60 X 151.59 X 149.28	22829	8.682	421.0	18.4	
	Drain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	151.89 X 150.41 X 150.21	22846	8.833	428.4	18.7	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-12-41 **Date: 13/02/2020**

Project Name : Package No.03 (Package Consists of 21 Works)

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 18-01-20

Customer ID : Drain Bottom Slab Concrete , Marathi Nagar 10th C cross Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	150.60 X 150.40 X 149.10	22650	8.712	543.1	24.0	23.3
2	Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	149.66 X 149.82 X 149.83	22422	8.468	494.9	22.1	
3	Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	150.24 X 149.02 X 150.37	22390	8.774	534.0	23.8	

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Assistant Executive Engineer,
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Yelahanka Zone, B.B.M.P.,
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-12-41 **Date: 25/01/2020**

Project Name : Package No.03 (Package Consists of 21 Works)

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 20-01-20

Customer ID : Drain Side Wall Concrete , Maruthi Nagar 10th C cross Road.

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	18/01/2020	25/01/2020	150.66 X 150.20 X 151.61	22628	**8.814**	424.9	18.8	18.7
2	Drain Side Wall Concrete	M20	18/01/2020	25/01/2020	150.35 X 150.88 X 151.35	22686	**8.682**	414.9	18.3	
3	Drain Side Wall Concrete	M20	18/01/2020	25/01/2020	151.12 X 151.01 X 151.31	22821	**8.833**	432.7	19.0	

Assistant Executive Engineer.
Kodigehalli Sub Division,
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-12-41 **Date: 15/02/2020**

Project Name : Package No.03 (Package Consists of 21 Works)

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 20-01-20

Customer ID : Drain Side Wall Concrete , Marathi Nagar 10th c cross Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	18/01/2020	15/02/2020	151.42 X 151.66 X 149.12	22964	8.712	534.6	23.3	23.3
2	Drain Side Wall Concrete	M20	18/01/2020	15/02/2020	149.49 X 150.83 X 149.05	22547	8.468	514.9	22.8	
3	Drain Side Wall Concrete	M20	18/01/2020	15/02/2020	149.15 X 150.50 X 151.87	22448	8.774	533.5	23.8	

Assistant Executive Engineer,
Kodigehalli Sub Division,
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 31/01/2020

ID	:	CP-2019-08-12-41
ect Name	:	Package No.03 (Package Consists of 21 Works)
ncy	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
tomer's Reference	:	BBMP/EE/BTP/WO/148/2018-19
e of Receipt	:	26-01-20
tomer ID	:	Cement Concrete Pavement, Kote Beedi. Cross Road opposite Pattalamma Temple
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M30 / 7 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	31/01/2020

.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	24/01/2020	31/01/2020	151.47 X 150.76 X 151.07	22836	8.548	583.7	25.6	25.7
2	Cement Concrete Pavement	M30	24/01/2020	31/01/2020	151.80 X 150.74 X 151.13	22881	8.541	611.0	26.7	
3	Cement Concrete Pavement	M30	24/01/2020	31/01/2020	151.96 X 151.01 X 151.23	22948	8.950	572.2	24.9	

Assistant Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

b ID	:	CP-2019-08-12-41 **Date: 21/02/2020**
oject Name	:	Package No.03 (Package Consists of 21 Works)
ency	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
stomer's Reference	:	BBMP/EE/BTP/WO/148/2018-19
te of Receipt	:	26-01-20
stomer ID	:	Cement Concrete Pavement, Kote Beedi, Cross Road opposite Pattalamma Temple
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M30 / 28 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
te of test	:	21/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	24/01/2020	21/02/2020	150.39 X 149.41 X 150.74	22469	8.357	751.3	33.4	33.2
2	Cement Concrete Pavement	M30	24/01/2020	21/02/2020	149.06 X 151.40 X 150.28	22567	8.139	729.1	32.3	
3	Cement Concrete Pavement	M30	24/01/2020	21/02/2020	149.18 X 150.66 X 149.63	22476	8.350	761.4	33.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2019-08-12-41 **Date: 31/01/2020**

ect Name : Package No.03 (Package Consists of 21 Works)

ncy : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.

tomer's Reference : BBMP/EE/BTP/WO/148/2018-19

e of Receipt : 26-01-20

tomer ID : Cement Concrete Pavement, Behind anjaneya Swami Temple, Kodigehalli

ple Type /Size : 150X150X150 mm

ple grade/Age : M30 / 7 Days Compressive Strength

erence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

e of test : 31/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Cement Concrete Pavement	M30	24/01/2020	31/01/2020	149.79 X 151.45 X 149.94	22686	**8.548**	582.2	25.7	25.7
Cement Concrete Pavement	M30	24/01/2020	31/01/2020	151.52 X 151.03 X 149.38	22885	**8.541**	617.8	27.0	
Cement Concrete Pavement	M30	24/01/2020	31/01/2020	151.45 X 151.75 X 149.68	22983	**8.950**	560.5	24.4	

Assistant Executive Engineer,
Kodigehalli Sub Division,
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TEST REPORT OF CEMENT CONCRETE CUBES

b ID : CP-2019-08-12-41 **Date: 21/02/2020**

oject Name : Package No.03 (Package Consists of 21 Works)

ency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.

stomer's Reference : BBMP/EE/BTP/WO/148/2018-19

te of Receipt : 26-01-20

stomer ID : Cement Concrete Pavement, Behind anjaneya swami Temple, Kodigehalli

mple Type /Size : 150X150X150 mm

mple grade/Age : M30 / 28 Days Compressive Strength

ference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

te of test : 21/02/2020

il. lo.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	24/01/2020	21/02/2020	150.88 X 149.01 X 149.67	22483	8.357	762.8	33.9	33.4
2	Cement Concrete Pavement	M30	24/01/2020	21/02/2020	150.81 X 149.05 X 149.93	22478	8.139	740.6	33.0	
3	Cement Concrete Pavement	M30	24/01/2020	21/02/2020	150.31 X 150.47 X 149.90	22617	8.350	754.8	33.4	

Assistant Executive Engineer
Kodigehalli Sub Division,
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TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2019-08-12-41 **Date: 31/01/2020**

ect Name : Package No.03 (Package Consists of 21 Works)

ncy : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.

tomer's Reference : BBMP/EE/BTP/WO/148/2018-19

e of Receipt : 26-01-20

tomer ID : Cement Concrete Pavement , cross Road, Kodigehalli.

ple Type /Size : 150X150X150 mm

ple grade/Age : M30 / 7 Days Compressive Strength

erence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

e of test : 31/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	24/01/2020	31/01/2020	151.17 X 149.15 X 149.29	22548	8.548	581.8	25.8	25.6
Cement Concrete Pavement	M30	24/01/2020	31/01/2020	149.98 X 149.38 X 149.19	22404	8.541	598.3	26.7	
Cement Concrete Pavement	M30	24/01/2020	31/01/2020	149.07 X 149.41 X 151.55	22272	8.950	538.7	24.2	

Assistant Executive Engineer,
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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2019-08-12-41 **Date: 21/02/2020**
ject Name	:	Package No.03 (Package Consists of 21 Works)
ncy	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
tomer's Reference	:	BBMP/EE/BTP/WO/148/2018-19
e of Receipt	:	26-01-20
tomer ID	:	Cement Concrete Pavement, cross Road. Kodigehalli
nple Type /Size	:	150X150X150 mm
nple grade/Age	:	M30 / 28 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
te of test	:	21/02/2020

L. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	24/01/2020	21/02/2020	151.41 X 150.06 X 149.11	22721	8.357	754.6	33.2	33.2
2	Cement Concrete Pavement	M30	24/01/2020	21/02/2020	149.97 X 149.14 X 150.13	22366	8.139	728.2	32.6	
3	Cement Concrete Pavement	M30	24/01/2020	21/02/2020	150.32 X 150.57 X 150.49	22634	8.350	763.3	33.7	

Assistant Executive Engineer,
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